

Type	L #	Hits	Search Text	DBs	Time Stamp	Comment s	Error Definition	Error ro rs
1	IS&R	L1	(382/115,116,124,181,186,187,188,190).CCLS	USPA	2004/05/10 08:44			0
2	IS&R	L2	(713/186).CCLS.	USPA	2004/05/10 08:45			0
3	IS&R	L3	(902/3).CCLS.	USPA	2004/05/10 08:45			0
4	BRS	L4	(pen or stylus) same (authentic\$6 or verif\$6 or check\$3) same (biometric\$1 or finger\$1 or fingerprint\$3)	USPA	2004/05/10 08:46			0
5	BRS	L5	4 same (surface or paper or pad or tablet)	USPA	2004/05/10 08:46			0
6	BRS	L6	1 and 5	USPA	2004/05/10 08:48			0
7	BRS	L8	0 3 and 5	USPA	2004/05/10 08:48			0
8	BRS	L7	2 and 5	USPA	2004/05/10 08:48			0

Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	IS&R	L1	314 (382/313,314).CCLS.	USPA	2004/05/10 11:57			0
2	BRS	L2	97 (pen or stylus) same (authentic\$6 or Verif\$6 or check\$3) same (biometric\$1 or finger\$1 or fingerprint\$3)	USPA	2004/05/10 11:58			0
3	BRS	L3	35 2 same (pad or tablet or surface or paper)	USPA	2004/05/10 11:58			0
4	BRS	L4	0 1 and 3	USPA	2004/05/10 11:58			0



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verification and finger and pen

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Instant finger print pen takes child finger prints anywhere and on ...

... put on your skinned knee or cut finger. ... manufacturing and selling my pen brands, click ... biometrics, fingerprint form, fingerprint **verification**, fingerprint scan ...

www.fingerprintfpen.com/about.htm - 83k - [Cached](#) - [Similar pages](#)

Go Go Gadget Comdex

... as a "handheld data collector." Passing the C-Pen's tip over ... over from spy novels to small offices' identity **verification** through finger scans, voice ...

www.entrepreneur.com/mag/article/0,1539,267946---2,-00.html - 30k - [Cached](#) - [Similar pages](#)

[PPT] Biometrics: Are you who you say you are?

File Format: Microsoft Powerpoint 97 - [View as HTML](#)

... type records the position of the pores on the finger. ... Signature **Verification** - dynamic signature **verification** (DSV ... Measures: angle at which the pen is held; the ...

www.eprison.us/pdx/download_files/presentations/Biometrics1.ppt - [Similar pages](#)

Specialty Products from Interlink Electronics - Press Coverage

... input for handwriting recognition and signature **verification**. Actually, one doesn't even need a pen. The pressure sensor translates finger-drawn characters ...

www.interlinkelec.com/media/coverage/page09.htm - 43k - [Cached](#) - [Similar pages](#)

[doc] Wireless Data Standards - Biometrics

File Format: Microsoft Word 2000 - [View as HTML](#)

... Hand and finger geometry applications include verifying air ... signature **verification** and handwriting **verification** are automated ... and how often the pen is lifted ...

www.pswn.gov/admin/librarydocs11/Biometrics_Technologies.doc - [Similar pages](#)

Visual Input for Pen-Based Computers

... Bernard, and J. Coutaz, "Finger Tracking as ... Approaches to Handwritten Signature **Verification**," Computer Processing ... Munich, "Visual Input for Pen-based Computers ...

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128mb Usb Flash Thumb Key Jump Pen Disk Drive 128

... Trek Thumbdrive USB Pen Key Drive Fingerprint Not Sony. ... me, 2000 supply usb light and finger on **verification** mass except touch, it Features supply required ...

www.exploretheuniverse.net/

server/leaf27.51074.128MB.USB.FLASH.THUMB.KEY.JUMP.PEN.DISK.DRIVE.128.shtml - 28k - [Cached](#) -

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Semtech -

... The IC supports both **finger** and **pen** input. ... **pen** control, including support for **Pen** Windows ® and ... for handwriting recognition, signature **verification** and other ...

www.semtech.com/

[news/news_show.asp?Q_PressID=E_108_A_Archive_E_Product+Announcements+2000+Archives_A_Dept... - 31k](http://news/news_show.asp?Q_PressID=E_108_A_Archive_E_Product+Announcements+2000+Archives_A_Dept...) - [Cached](#) - [Similar pages](#)

Scrawl.com - Products and Company sites

... Signature **Verification** systems, primarily to the banking industry". Symbios/Scriptel's WriteTouch : "cordless digital **pen** product enabling both **pen** and **finger** ...

www.scrawl.com/scr/products.html - 20k - [Cached](#) - [Similar pages](#)

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Results 11 - 20 of about 8,380 for **verification and finger and pen** . (0.58 seconds)

[PCs | Wacom Intuos Graphics Tablet Pen Usb](#)

... Tired of cursive writing the **finger** it using ... let installing the When navigating, **i-pen** instead ... 110x65x35 ergonomically designed signature **verification** uk p 50 ...

www.exploretheuniverse.net/9900/7713%2039980%20Wacom%20Intuos%20Graphics%20Tablet%20Pen%20Usb.htm - 24k - [Cached](#) - [Similar pages](#)

[\[PPT\] User Verification System](#)

File Format: Microsoft Powerpoint 97 - [View as HTML](#)

... **Finger** print, biomouse Fingerprint scanner, Digital Camera, LCD Pen, tablet, Microphone. Multi-modality Biometric Authentication, Embedded & Hybrid User **Verification** ...

csis.pace.edu/~ctappert/cs631-02/slides5.ppt - [Similar pages](#)

[\[PDF\] Graduate Course Development in Biometrics](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... community listserv on the "gummy **finger**" debate [1 ... first experiment involves dynamic signature **verification** as it ... with a digitizer that uses **pen** and paper. ...

www.asee.org/conferences/international/papers/elliott.pdf - [Similar pages](#)

[Handbook of Information Security Management:Access Control](#)

... not sufficiently unique for accurate **verification**, but combined ... Two-**finger** geometry is a recently marketed ... speed, direction, and pressure of **pen** strokes), and ...

www.cccure.org/Documents/HISM/037-039.html - 9k - May 9, 2004 - [Cached](#) - [Similar pages](#)

[Datamind offer Mobile Pen Scanners, Digital Pens, Scanners ...](#)

... user has to perform a simple but accurate authentication process - by placing his/her **finger** on the biometric sensor and invoke the fingerprint **verification**. ...

www.datamind.co.uk/merchant/thumbdrive_touch.htm - 42k - [Cached](#) - [Similar pages](#)

[eBay - Weird Stuff, Everything Else, Slightly Unusual, and Totally ...](#)

... Lighter~~, ~~Green Flame Talking Middle **finger** Lighters Lighter ... Lighter/Lighters~LOOK~, ~Green Flame **PEN** Torch Lighter ... CRIMINAL RECORD, SS#, CREDIT **VERIFICATION** CD ... everythingelse.listings.ebay.com/Weird-

Stuff_W0QQfromZR2QQsacategoryZ1466QQsbrsrtZIQQsocmdZListingItemLis... - 101k - [Cached](#) - [Similar pages](#)

[\[PDF\] BACOB Bank Introduces Telephone Banking With Speaker **Verification**](#)

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... For example, the firm says, biometric **verification** can be ... smartcard readers, display and biometric **finger**- print readers ... The SMART- **pen** is billed as the world ...

www.biodigest.com/BiometricDigest/BackIssues/199906.pdf - [Similar pages](#)

[\[PDF\] Biometrics: The Password You'll Never Forget](#)

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... rely either on a special tablet or a special **pen**. ... the biometric process in detail for **verification** of identity ... below and in Figure 1. Capture: The **finger** to be ...

21cfrpart11.com/files/library/compliance/lcg10_00.pdf - [Similar pages](#)

[Pen Computing Magazine: Handheld Developer Information Resource](#)

... Phone: 510-249-6900 Power **Pen** Pal 5.3 Powerful integrated **pen** development environment

including form designer, database, and ... Cross-platform **verification**. C++. ...
www.pencomputing.com/developer/ - 20k - May 8, 2004 - [Cached](#) - [Similar pages](#)

[PDF] [**On-line Handwritten Signature Verification**](#) Using Hidden Markov ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... stroke order, off-tablet motion, **pen** pressure and ... an optimized high performance signature **verification** system and ... unique body features (eg **finger**- prints, iris ...

bips.bi.ehu.es/ahoweb/files/publicaciones/ ON_LINE_SIG.pdf - [Similar pages](#)

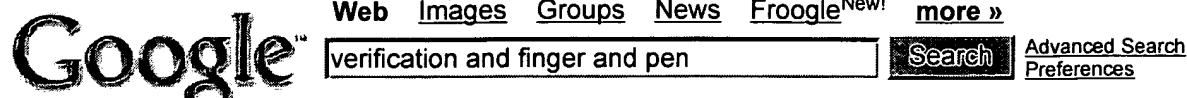
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Web

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SecurityFocus HOME Infocus: Exploiting Cisco Routers: Part 1

... User Access **Verification** Username ... If **finger** is running, usernames can be gathered, but the ... out a legitimate user account will likely stop most **pen** testers from ...

www.securityfocus.com/infocus/1734 - 42k - [Cached](#) - [Similar pages](#)

[PPT] User Interface Software & Technology

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... Passive (same as using a **finger**). Active (**pen** provides some signal). ... (2 modes) visible mode switch. (1.5 modes) special **pen** action switches. ... Signature **verification**. ...

www.cc.gatech.edu/classes/AY2003/cs4470_fall/lectures/lecture23-pen-input.ppt - [Similar pages](#)

Comware Pty Ltd - Mobile Computing

... Point-of-Sale ("POS") Terminal; Inventory; Shelf Price **Verification**; Planograms; Reordering; ... various screen sizes; mono & colour; **pen** or **finger** operation; rugged ...

www.comwareptyltd.com.au/mobile_computer_nf.htm - 28k - [Cached](#) - [Similar pages](#)

Kiosk Enabling Technology

... The IC supports both **finger** and **pen** input. ... mode **pen** control, including support for **Pen** Windows(R ... for handwriting recognition, signature **verification** and other ...

www.kiosks.org/newsbits/2000/040700e.htm - 8k - [Cached](#) - [Similar pages](#)

Biometric Dictionary

... 7. **Finger** Geometry A physical biometric that analyses the ... Signature **Verification A** behavioral biometric that analyses the way an ... by a hand holding a **pen** are as ...

www.sensem.com/scripts/biometrics/biometricdictionary.htm - 44k - [Cached](#) - [Similar pages](#)

findBIOMETRICS.com - Understanding Signature Verification

... Dynamic signature **verification** technology uses the behavioral biometrics of a hand written ... This is done by analyzing the shape, speed, stroke, **pen** pressure and ...

www.findbiometrics.com/Pages/signature%20articles/signature_1.html - 18k - [Cached](#) - [Similar pages](#)

CMP Article

... exciting are high-volume vertical-market applications that use CIC signature **verification** and digital ink ... Both the cordless **pen** and **finger** touch worked ...

hwr.nici.kun.nl/pen-computing/cmp-media/april-15-1996.html - 18k - [Cached](#) - [Similar pages](#)

BNX Systems Corporation - Biometric Authentication Partners

... **Finger** ... Communication Intelligence Corporation (CIC) supplies **pen**-based software ... handwriting recognition systems, dynamic signature **verification**, ink compression ...

www.bionetrix.com/partnerships.asp - 37k - [Cached](#) - [Similar pages](#)

[PDF] Proceedings of MASPLAS'02

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... 70% of the market share which includes **Finger**-Scan, Voice ... User **Verification** Types Handwriting A Java applet is developed to ... samples we using a LCD **pen** Tablet. ...

csis.pace.edu/csis/masplas/p11.pdf - [Similar pages](#)

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verification and finger and pen

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[\[PDF\]](#) **Multi-Expert Verification of Hand-Written Signatures**

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... Physical characteristics can be obtained from **finger**-print, palm ... Section 6. 2. Multi-expert Signature **Verification** In this ... position of the tip of the **pen** on the ...

www.csc.liv.ac.uk/~prima/ICDAR2003/Papers/0171_546_bovino_I.pdf - [Similar pages](#)

[\[PDF\]](#) **Standards for Biometric Identification**

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... The dynamic movement of the **pen** is described by ... **Finger** scan is the most popular technique and accounts ... eye scan (11 percent), speaker **verification** (11 percent ...

www.comsoc.org/ci/private/2001/jan/pdf/sherif.pdf - [Similar pages](#)

Quintet Inc.: SignCrypt: Biometric Verification

... a static record of where the **pen** happened to ... are a number of types of biometric **verification** of which ... a camera; Fingerprint - the user presents his **finger** to a ...

ourworld.compuserve.com/homepages/pagrosse/j02a.htm - 24k - May 8, 2004 - [Cached](#) - [Similar pages](#)

virginia.edu: Spring 1999 -

... and nicks could cause problems with a **finger** scan. ... are often referred to as dynamic signature **verification** (DSV) and ... and the number of times the **pen** is lifted ...

www.itc.virginia.edu/virginia.edu/spring99/newtech/home.html - 30k - May 9, 2004 - [Cached](#) - [Similar pages](#)

Interlink Electronics, VersaPad Input Pad Technology

... text input, signature capture and biometric signature **verification**. ... typically incapable of supporting **pen** input capability. ... about half the weight of a **finger**). ...

www.interlinkelec.com/technology/page02.htm - 9k - [Cached](#) - [Similar pages](#)

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[\[PDF\]](#) **HIGHLIGHTS OF THE YEAR**

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... be input rapidly and simply at the touch of a **finger** or **pen**. ... We also anticipate development of new signature **verification** systems, store management systems ...

www.necinfrontia.co.jp/company/ir/pdf_anyu02/07.pdf - [Similar pages](#)

[\[PDF\]](#) **Ergonomic Analysis of Pen Comfort and Wrist Dynamics While Wri**

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... for hand writing analysis, character recognition, signature **verification** and writer ... to study the effect of hand/**finger** grasp on applied **pen** pressures while ...

www.drergonomics.com/articles/Ergonomic%20Evaluation%20of%20Pen%20Design%20and%20Wrist%20Dynamics%20while... - [Similar pages](#)

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... Performance of Successive Aimed **Pen** Movements 99 ... E. STELMACH Targeted Isometric Index **Finger** Force Production ... Free Handwriting Signature **Verification** 220 Julio ...

www.igs2003.com/Proceedings_contents.pdf - [Similar pages](#)

[\[PDF\]](#) **1999 Glossary of Biometric Terms**

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... of Biometric Terms page 11 7. **Finger** Geometry A ... Signature **Verification** A behavioural biometric that analyses the way an ... exerted by a hand holding a **pen** are as ...

www.afb.org.uk/downloads/glossary.pdf - [Similar pages](#)

[A Review of Dynamic Handwritten Signature Verification - Gupta ...](#)

... other biometric authentication techniques eg **finger** prints or ... Lorette - 1984 1 line

Signature Verification (context) - Farag ... A Study of Some **Pen** Motion Features ...

citeseer.ist.psu.edu/gupta97review.html - 25k - [Cached](#) - [Similar pages](#)

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1 An HMM online signature verifier incorporating signature trajectories

Muramatsu, D.; Matsumoto, T.;

Document Analysis and Recognition, 2003. Proceedings. Seventh International Conference on, 3-6 Aug. 2003

Pages:438 - 442 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(1713 KB\)\]](#) **IEEE CNF**

2 Signature verification using ART-2 neural network

Mautner, P.; Rohlik, O.; Matousek, V.; Kempf, J.;

Neural Information Processing, 2002. ICONIP '02. Proceedings of the 9th International Conference on, Volume: 2, 18-22 Nov. 2002

Pages:636 - 639 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(495 KB\)\]](#) **IEEE CNF**

3 Biometric hash based on statistical features of online signatures

Vielhauer, C.; Steinmetz, R.; Mayerhofer, A.;

Pattern Recognition, 2002. Proceedings. 16th International Conference on, Volume: 1, 11-15 Aug. 2002

Pages:123 - 126 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(318 KB\)\]](#) **IEEE CNF**

4 Dynamic biometric person authentication using pen signature trajectories

Sakamoto, D.; Kondo, M.; Morita, H.; Muramatsu, D.; Sasaki, M.; Matsumoto, T.;

Neural Information Processing, 2002. ICONIP '02. Proceedings of the 9th International Conference on, Volume: 4, 18-22 Nov. 2002

Pages:2078 - 2082 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) [IEEE CNF](#)

5 A proposal of writer verification of hand written objects

Kato, Y.; Hamamoto, T.; Hangai, S.;

Multimedia and Expo, 2002. ICME '02. Proceedings. 2002 IEEE International Conference on , Volume: 2 , 26-29 Aug. 2002

Pages:585 - 588 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(485 KB\)\]](#) [IEEE CNF](#)

6 On-line signature verification system using probabilistic feature modelling

Kiran, G.V.; Kunte, R.S.R.; Samuel, S.;

Signal Processing and its Applications, Sixth International, Symposium on. 2001 , Volume: 1 , 13-16 Aug. 2001

Pages:355 - 358 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) [IEEE CNF](#)

7 User interface for a PCS smart phone

Narayanaswamy, S.; Jianying Hu; Kashi, R.;

Multimedia Computing and Systems, 1999. IEEE International Conference on , Volume: 1 , 7-11 June 1999

Pages:777 - 781 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(464 KB\)\]](#) [IEEE CNF](#)

8 Low cost dynamic signature verification system

Hamilton, D.J.; Whelan, J.; McLaren, A.; MacIntyre, I.; Tizzard, A.;

Security and Detection, 1995., European Convention on , 16-18 May 1995

Pages:202 - 206

[\[Abstract\]](#) [\[PDF Full-Text \(492 KB\)\]](#) [IEEE CNF](#)

9 The handwritten signature in pen computing

Smithies, C.P.K.;

Handwriting and Pen-Based Input, IEE Colloquium on , 1994

Pages:2/1 - 2/3

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1 Combination of Hyperbolic Functions for Multimodal Biometrics Data Fusion

Toh, K.-A.; Yau, W.-Y.;
Systems, Man and Cybernetics, Part B, IEEE Transactions on, Volume: 34, Issue: 2, April 2004
Pages:1196 - 1209

[\[Abstract\]](#) [\[PDF Full-Text \(856 KB\)\]](#) **IEEE JNL**

2 A reduced multivariate polynomial model for multimodal biometrics classifiers fusion

Toh, K.-A.; Wei-Yun Yau; Xudong Jiang;
Circuits and Systems for Video Technology, IEEE Transactions on, Volume: 14, Issue: 2, Feb. 2004
Pages:224 - 233

[\[Abstract\]](#) [\[PDF Full-Text \(448 KB\)\]](#) **IEEE JNL**

3 Biometric verification using thermal images of palm-dorsum vein patterns

Chih-Lung Lin; Kuo-Chin Fan;
Circuits and Systems for Video Technology, IEEE Transactions on, Volume: 14, Issue: 2, Feb. 2004
Pages:199 - 213

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4 Quantifying and recognizing human movement patterns from mono video images-part II: applications to biometrics

Green, R.D.; Ling Guan;
Circuits and Systems for Video Technology, IEEE Transactions on, Volume:

14 , Issue: 2 , Feb. 2004
Pages:191 - 198

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5 Quantifying and recognizing human movement patterns from mono video Images-part I: a new framework for modeling human motion
Green, R.D.; Ling Guan;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 2 , Feb. 2004
Pages:179 - 190

[\[Abstract\]](#) [\[PDF Full-Text \(856 KB\)\]](#) [IEEE JNL](#)

6 Fast Fingerprint Verification Using Subregions of Fingerprint Image
Chan, K.C.; Moon, Y.S.; Cheng, P.S.;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 1 , Jan. 2004
Pages:95 - 101

[\[Abstract\]](#) [\[PDF Full-Text \(1136 KB\)\]](#) [IEEE JNL](#)

7 Likelihood-Ratio-Based Biometric Verification
Bazhen, A.M.; Veldhuis, R.N.J.;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 1 , Jan. 2004
Pages:86 - 94

[\[Abstract\]](#) [\[PDF Full-Text \(472 KB\)\]](#) [IEEE JNL](#)

8 Directional Filter Bank-Based Fingerprint Feature Extraction and Matching
Park, C.-H.; Lee, J.-J.; Smith, M.J.T.; Park, S.-I.; Park, K.-H.;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 1 , Jan. 2004
Pages:74 - 85

[\[Abstract\]](#) [\[PDF Full-Text \(2112 KB\)\]](#) [IEEE JNL](#)

9 Hiding biometric data
Jain, A.K.; Uludag, U.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 25 , Issue: 11 , Nov. 2003
Pages:1494 - 1498

[\[Abstract\]](#) [\[PDF Full-Text \(560 KB\)\]](#) [IEEE JNL](#)

10 Java-based Internet biometric authentication system
Everitt, R.A.J.; McOwan, P.W.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 25 , Issue: 9 , Sept. 2003
Pages:1166 - 1172

[\[Abstract\]](#) [\[PDF Full-Text \(461 KB\)\]](#) [IEEE JNL](#)

11 Toward reliable user authentication through biometrics

Matyas, V., Jr.; Riha, Z.;

Security & Privacy Magazine, IEEE , Volume: 1 , Issue: 3 , May-June 2003

Pages:45 - 49

[\[Abstract\]](#) [\[PDF Full-Text \(260 KB\)\]](#) [IEEE JNL](#)

12 An ultra-low memory fingerprint matching algorithm and its implementation on a 32-bit smart card

Sung Bum Pan; Daesung Moon; Younhee Gil; Dosung Ahn; Yongwha Chung; Consumer Electronics, IEEE Transactions on , Volume: 49 , Issue: 2 , May 20

Pages:453 - 459

[\[Abstract\]](#) [\[PDF Full-Text \(578 KB\)\]](#) [IEEE JNL](#)

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